

IN THE ABSTRACT

Please amend the abstract as follows:

The invention relates to a method for the production of ceramic coatings on metallic and/or ceramic surfaces, especially pipe walls and the linings of pipe wall in boilers, in order to protect coated surfaces from corrosion and adhesion problems, in addition to relating to coatings which can be produced according to said method. The ceramic coatings are characterised in that the coating contains boron nitride in order to form a low energy surface, and ceramic nanoparticles as temperature stable binding agents which, on account of their high specific powder surfaces, act as binders, or alternatively glass-type binder systems based on metal organyl compounds.

A method for producing a ceramic coating of metallic and/or ceramic surfaces and products in reactors, process plants and combustion plants includes applying a mixture of fine-particle boron nitride, at least one inorganic binding agent of medium particle size in the nanometer range, containing substantially Al_2O_3 , AlO(OH) , ZrO_2 , Y-ZrO_2 , TiO_2 , Fe_2O_3 and/or SnO_2 or an associated precursor compound and at least one solvent and/or water onto a metallic and/or ceramic surfaces or product, and burning the applied mixture into a coating through heating.